# The Maryland Fruit Grower

March, 1934

Maryland State
Horticultural Society

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# The Maryland Fruit Grower

**Published Monthly by the Maryland State Horticultural Society**

**Edited by the Secretary, A. F. Vierheller, Extension Horticulturist**

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## *SUGGESTIONS ON CARE OF THE PEACH ORCHARD*

Dr. A. L. Schrader of the Horticultural Department, University of Maryland has offered these comments:

"Following the severe freezing injury which occurred to peach buds in Maryland, many growers will find that some change of practice will be necessary if the trees bear little or no crop.

First, the problem of spraying arises. The peach leaf curl spray if not already applied should be applied to the trees before the buds break out whether there is a prospect of a crop or not. Prevalence of peach leaf curl last year makes it rather dangerous to omit this spray. If any peaches set on trees it will be wise to apply the shuck spray since a few peaches on the trees at that time may show up later as quite a percentage of a crop.

Another consideration is the pruning of the peach tree as regards the amount of pruning as well as the type of pruning. Without a crop on the tree more wood growth will be made by the tree since a crop has a very marked effect on limiting the growth of a tree. Pruning will stimulate growth of new wood particularly in making longer individual growths, especially near the cuts. Long upright watersprouts are not desirable. With these considerations in mind it will be well not to prune peach trees too heavily unless it is desired to lower the tops of the trees that are too tall or to rejuvenate old devitalized trees, stimulating growth of good fruiting wood. The method of rejuvenation pruning has been given in Maryland bulletin 327. A moderate to light pruning without a crop will result in good production of fruiting wood for 1935 on peach trees which are in good vegetative condition at the present time. If the pruning has already been done and the trees have been more heavily pruned than would be necessary without a crop, it would be essential to reduce the application of nitrogen fertilizers considerably. Even with a moderate to light pruning a grower may save on his fertilizer bill by reducing the nitrogen application to about one-third of the usual amount.

In the same light, we may consider a reduction of cultivation in 1934 if the trees are not bearing a crop. Two or three good cultivations to cut up the old peach mummies and to keep the orchard clean cultivated until about June 15th to July 1st, should be enough to keep the orchard in good condition. A grower also has a chance to grow a good cover crop when the trees are not bearing a crop, sowing the cover crop early, about June 1st to June 15th, using cowpeas, soybeans, millet, or Sudan grass, or whatever crop will give an abundance of organic matter under his particular soil conditions. This early cover crop can be turned under the latter part of August and cover crop of rye or rye and vetch be sown after that time—about September 1st to September 15th. This double cover cropping has a marked advantage in building up the organic matter in the soil and thus giving the soil much greater fertility and moisture-holding capacity."

## *LESPEDEZA*

While this crop is not extensively grown in Maryland it offers promise as a cover crop in apple orchards. It is best sown March 1 to April 1. Broadcast the seed and harrow lightly. In orchards where there is much sod, a harrowing before seeding, is advisable. On freshly prepared land, no harrowing is necessary after seeding. Twenty pounds of seed per acre is suggested for a full stand, but 5 to 10 pounds may be used, relying on seed produced, to increase the stand the next year. Korean is the variety recommended. Not much growth will be evident until June. Lespedezas being legumes gather about as much nitrogen as cowpeas, and will furnish a rapidly decomposing type of nitrogen, whether harrowed in, or left on the land. This cover crop makes a nice covering under trees, and may harbor mice. If it is too thick under trees, mow it in the fall.

Where land tends to wash, grass should be mixed in the seeding, as lespedeza is killed by the first frost. A suggested mixture for such land is 10 pounds of Korean lespedeza, 10 pounds orchard grass and 3 pounds of red top, sown at the rate of 20 to 25 pounds per acre. In good seasons, lespedeza will grow to 12 to 18 inches high, and produces 200-400 pounds of seed per acre.

While lespedeza is a "poor land" crop, it will do better if about 200 to 300 pounds of superphosphate per acre is used at seeding. Once established the lespedeza re-seeds itself each year.

(*Summary of article by T. B. Hutcheson, in February 1934, "Virginia Fruit"*)

## *FREEZE INJURY TO PEACHES*

After the freeze of February 9, growers reports, though variable left hope of a light crop of several varieties in some sections of the State. Lower Eastern Shore seemed least affected and were hopeful of a fair crop. Central Maryland and upper Eastern Shore reported heavy to total losses, with a possible light crop on Carman and Belle. Western Maryland reported prospects of a partial crop on such varieties as Carman, Belle, Greensboro, Salway, and Heath. The heavy freeze of February 28 has confused the reports, but some growers still report hopeful prospects.

Evidently little or no serious injury has occurred in Arkansas, Illinois, the Carolinas and Georgia. The rest of the peach sections report heavy to total bud kill, and some states have considerable wood injury on peach. No wood injury has been observed or reported in Maryland to date.

"Applying nitrogen in a ring close about an apple tree and then letting the weeds grow unmolested, is not unlike giving the kitten a bowl of milk and then allowing the dog to help himself". N. J. Hort. Society News.

**FOR SALE**

PEDIGREED KOREAN LESPEDEZA, DODDER FREE, 99.70% Pure. This strain produces excellent results in orchards and thrives on poor soil where clover and alfalfa would fail. This is the cheapest soil building legume and does not require lime, fertilizer or soil preparation. We will be glad to give you the benefit of our experience with this crop, which extends over a period of four years.

**The Glasgow Company, Glasgow, Virginia.**

# "I've got 1934 PROFITS figured out *this* way!"

## *"The money will go to the grower who raises plenty of Extra Fancy Fruit"*

**...Scab, Codling Moth and other pests must go!**

GROWERS face a brighter outlook. 1934 promises to be a distinctly better year. How much better it will be for you, however, depends upon how much top-quality fruit you produce.

The ORTHO *Summer Spray Program* offers the most effective and economical way to top-quality fruit known to the growing industry.

This program provides for control of Codling Moth, Scale, Scab and most all Inspect Pests and Diseases, that attack trees, fruit, and profits.

For Codling Moth the recommended control consists of the addition of ORTHOL-K and ORTHO *Spreader* to the *Lead* applications at the height of the egg-laying period.

### *For Codling Moth*

ORTHOL-K is the *proven* Oil Spray for summer use. Combined with Lead Arsenate it gives the most effective control yet devised for Codling Moth. It kills Codling Moth eggs, reduces "stings" and makes entrance by the worms much more difficult...offers no interference with residue removal when properly used.

ORTHOL-K—Nicotine Sulphate is the most efficient, economical, and satisfactory substitute for Lead Arsenate for Codling Moth, being a fine clean-up spray as well for Red Mite, Leaf Hoppers, Aphids, Case Bearers, Scale, and similar insects.

### *The Spreader is Important*

The addition of ORTHO *Spreader*, the improved film-builder, insures quick uniform coverage of fruit and foliage. It prevents blotched coverage and blotched coloring of the fruit. Developed for use with Arsenicals, Oil Spray and other Spray Combinations.

### *Coposil for Scab*

Where Scab or Brooks' Fruit Spot is present, the addition of *Coposil* takes care of these diseases at the same time, giving you a complete spray in one application.

*Coposil* is compatible with Oil Sprays and is remarkably safe.

*Write for full information on the* ORTHO *Summer Spray Program*

California Spray-Chemical Corp.
214-AA West 14th Street, New York, N. Y.
15-AA Shattuck Square, Berkeley, Calif.

# ORTHOL-K

**AND LEAD ARSENATE with ORTHO SPREADER**

**(and 'COPOSIL' for Scab and Brooks' Fruit Spot)**

ORTHO — SCIENTIFIC PEST CONTROL

## *POLLINATION OF APPLES*

S. W. WENTWORTH
Department of Horticulture, University of Maryland

The following are a few of the facts that workers at Maryland and other Experiment Stations have obtained regarding the pollination requirements of the apple and other factors which influence the set and subsequent development of fruit.

Cross pollination and fertilization of the ovules is necessary with most of our apple varieties. The following commercial varieties will set practically no fruit with their own pollen:

*Self-unfruitful. Do not plant in solid blocks.*

| | | |
|---|---|---|
| Akin | Lilly of Kent | Rhode Island |
| Arkansas Black | King David | Red Astrachan |
| Arkansas (Mammoth Black Twig) | McIntosh | Richared |
| Blenheim | Maiden Blush | Roxbury |
| Boiken | Magnet | Smith Cider |
| Beach | Melba | Scarlet Pippin |
| Bismark | Medina | Stark |
| Champlain | Melon | Starr |
| Chenango | Missouri Pippin | Summer Rambo |
| Cortland | Nero | Stayman |
| Delicious | Northern Spy | Salome |
| Golden Delicious | Northwestern | Starking |
| Early Ripe | Opalescent | Tompkins King |
| Ensee | Ohio Nonpareil | Twenty Ounce |
| Fallawater | Ortley | Turley |
| Fameuse | Paragon | White Pearmain |
| Fourth of July | Porter | Wilson Red June |
| Gravenstein | Ralls | Winesap |
| Kinnaird | Red June | Williams |
| Lowry | Red Duchess | Winter Banana |
| Lauver | Red Spy | Winter Rambo |
| | Red Gravenstein | Wolf River |
| | | Yellow Bellflower |

Self pollination of a few of our varieties will result in a small crop but rarely in a commercial crop. The following varieties are partially self-fruitful. For best results cross pollination is recommended.

*Partly self-fruitful. Set a light crop from own pollen, but better if pollinated.*

| | | |
|---|---|---|
| Baldwin | Gano | Red Rome |
| Bonum | Grimes | Rome Beauty |
| Ben Davis | Green Newtown | Ribston |
| Cox Orange | Jonathan | Wagener |
| Early Harvest | Keswick | Wealthy |
| Esopus (Spitzenburg) | Mother | Yellow Transparent |
| Gallia Beauty | Oldenburg | Yellow Newton |
| | | York Imperial |

The variety selected as a pollenizer should also be a good commercial variety. It should bloom at approximately the same time as the variety to be pollinated. Midseason blooming varieties usually overlap both the early and late blooming varieties sufficiently to provide adequate cross pollination. Early blooming and late blooming varieties, however, should not be relied upon to provide proper cross pollination. It is very desirable to have varieties which bloom annually rather than biennially to insure a good supply of pollen each year. The pollen should germinate well or cause a high percentage of

the flowers to set fruit. The following is a list of varieties which have been tested and are recommended as good pollenizers for most varieties, provided the bloom periods overlap sufficiently.

*List of pollenizers which are usually effective on most varieties if the bloom periods overlap.*

*Early Blooming Pollenizers*

Chenango
Early Harvest
Early Ripe
Fallawater
Fameuse
Joyce
Maiden Blush
McIntosh
Medina
Melba
Oldenburg
Red Astrachan
Red Duchess
Twenty Ounce
Wagener
Whitney
Yellow Transparent

*Midseason Blooming Pollenizers*

Ben Davis
Carleton
Cortland
Cox Orange
Delicious
Gano
Golden Delicious
Golden Russet
Grimes
Hubbardston
Jonathan
Lodi
Opalescent
Red Canada
Starking
Wealthy
Winter Banana
Wolf River
Yellow Newtown
York Imperial

*Late Blooming Pollenizers*

Gallia Beauty
Ingram
King David
Lauver
Lowry
Macoun
Mother
Northern Spy
Northwestern
Orleans
Red Rome
Red Spy
Rome Beauty
Tolman
Williams

The following is a list of poor pollenizers. The pollen of these varieties germinates very poorly and causes a poor set of fruit on practically all varieties.

*Poor Pollenizers*

| *Early Blooming* | *Medium Blooming* | *Late Blooming* |
|---|---|---|
| Bramley | Arkansas | Baldwin |
| Gravenstein | Blenheim | Kinnaird |
| Red Gravenstein | Ohio Nonpariel | |
| Summer Rambo | Rhode Island | |
| | Ribston | |
| | Stark | |
| | Stayman | |
| | Tompkins King | |
| | Winesap | |

*Successful Apple Crosses*

The following is a list of varieties with pollenizers which have proven successful at Maryland or other experiment stations. No doubt many other crosses would be equally successful but proof has not been established thus far. Varieties which appear to be the most desirable from the standpoint of bloom period, potency of pollen and commercial value of fruit are printed in *italics*.

**ARKANSAS (Mammoth Black Twig)**
**Ben Davis, *Delicious*, Esopus, Gano, Hubbardston, *Jonathan*, *McIntosh*, *Northwestern*, Red June, Wealthy, *Yellow Transparent*, York Imperial.**

**BALDWIN**
**Babbit, Ben Davis, *Cox Orange*, *Delicious*, Ensee, *Grimes*, Hubbardston, *Jonathan*, *McIntosh*, *Northern Spy*, Rhode Island, Roxbury, *Wealthy*, White Pippin, Winter Banana, Yellow Transparent.**

BEN DAVIS
Baldwin, Blenheim, Canada Red, *Delicious*, Esopus, *Golden Delicious*, Golden Russet, Green Newtown, Grimes, *Jonathan*, *McIntosh*, Mother, *Northern Spy*, Opalescent, Rhode Island, *Rome Beauty*, Roxbury, Wagener, *Wealthy*, Yellow Newtown.

BLENHEIM
Ben Davis, Cox Orange, Delicious, Golden Russet, McIntosh, Oldenburg, Wagener, Yellow Transparent, York Imperial.

CHAMPLAIN
Delicious, Jonathan, Rome Beauty, Scarlet Pippin, Yellow Transparent.
Champlain is a late blooming variety.

CHENANGO
Golden Delicious, Joyce, *McIntosh*, *Melba*.

CORTLAND
Ben Davis, Crimson Beauty, Green Newtown, *Kendall*, *Lobo*, Macoun, *McIntosh*, Milton, Red Spy, Rhode Island.

DELICIOUS
Black Ben, *Blackjon*, *Cortland*, Esopus, *Gallia Beauty*, Gano, *Golden Delicious*, *Grimes*, *Jonathan*, King David, King John, Lowry, *McIntosh*, *Northern Spy*, Northwestern, Oldenburg, *Red Rome*, *Rome Beauty*, Williams, Winter Banana, Yellow Bellflower, Yellow Newtown, *Yellow Transparent*, York Imperial.
Poor pollenizers—Red Stayman, Red Winesap, Richared, Shotwell Delicious, Starking, Stayman, Turley, and Winesap.
Delicious often sets poorly even with the best pollenizers.

EARLY HARVEST
Early Ripe, Early Red, Grimes, Jonathan, *McIntosh*, *Oldenburg*, Red June, Williams, *Yellow Transparent*.

EARLY McINTOSH
Cortland.

EARLY RIPE
Early Harvest, Early Red, Red Astrachan, Red June, Williams, Yellow Transparent.

ENSEE
Delicious, Golden Delicious, McIntosh, Rome Beauty.

ESOPUS
*Arkansas Black*, Baldwin, Ben Davis, *Delicious*, Grimes, *Jonathan*, McIntosh, *Ortley*, Red Cheek Pippin, Rome Beauty, Wagner, Winter Banana, *Yellow Newtown*.

FALLAWATER
Esopus, Mother, Oldenburg.

FAMEUSE
*Delicious*, *McIntosh*, Whitney.

GALLIA BEAUTY
*Delicious*, *Golden Delicious*, *Jonathan*, McIntosh, *Red Spy*, *Starking*.
Red Rome and Rome Beauty are unsatisfactory pollenizers for Gallia Beauty.

GOLDEN DELICIOUS
Chenango, *Delicious*, Grimes, *Jonathan*, Melba, *Northern Spy*, Oldenburg, Red Duchess, *Red Rome*, *Rome Beauty*, *Starking*, Williams, Winter Banana, Yellow Transparent.

GOLDEN RUSSET
Cox Orange, McIntosh.
Baldwin, Gravenstein, and Tompkins King are unsatisfactory.

GRIMES
Akin Red, Ben Davis, *Delicious*, Early Ripe, Ensee, Gano, *Golden Delicious*, Hubbardston, *Jonathan*, *King David*, *McIntosh*, Oldenburg, Red Duchess, *Rome Beauty*, Roxbury, *Starking*, Steel Red, Summer Rambo, *Wealthy*, Wilson Red June, White Pippin, Winter Banana, Williams, *Yellow Transparent*.
Baldwin, Winesap, Arkansas, Stayman, and Rhode Island are unsatisfactory.

GRAVENSTEIN
Cox Orange, *Delicious*, Esopus, *Fameuse*, *Golden Russet*, Grimes, Jonathan, McIntosh, Northern Spy, Red Astrachan, Rome Beauty, Wagener, *Yellow Bellflower*, *Yellow Newtown*, *Yellow Transparent*, York Imperial.
Rhode Island, Baldwin, and Tompkins King are unsatisfactory.

JONATHAN
Baldwin, *Ben Davis*, *Delicious*, *Gallia Beauty*, Gano, *Golden Delicious*, *Grimes*,

King David, *McIntosh*, Northern Spy, Oldenburg, *Rome Beauty*, Steel Red, Wagener, *Wealthy*, *Winter Banana*, Yellow Bellflower, *Yellow Transparent*, York Imperial.

KENDALL
Cortland.

KING DAVID
Ben Davis, Cortland, *Delicious*, *Golden Delicious*, Grimes, *Jonathan*, Oldenburg, Wealthy.

LILLY OF KENT
*Delicious*, *Grimes*, Scarlet Pippin, Yellow Transparent.
Jonathan and Nero are unsatisfactory.

LOBO
*Cortland.*

LOWRY
*Golden Delicious*, *Starking.*

McINTOSH
Baldwin, Baxter, Ben Davis, Bismark, Carleton, Chenango, *Cortland*, *Delicious*, Early Harvest, Early McIntosh, Esopus, *Fameuse*, Gallia Beauty, Gano, Golden Delicious, Grimes, Hubbardston, Jonathan, Joyce, Kendall, Lodi, Lobo, Lauver, Macoun, Melba, Medina, Milton, Northern Spy, *Oldenburg*, Opalescent, Orleans, Red Duchess, Red June, Red Astrachan, Rhode Island, Roxbury, *Starking*, Steel Red, Tolman, Twenty Ounce, Wagener, *Wealthy*, Williams, Winter Banana, Yellow Newtown, Yellow Transparent, York Imperial.

MELBA
Grimes, Joyce, *McIntosh*, Red Duchess, Wealthy, *Yellow Transparent.*

MOTHER
Bonum, Delicious, McIntosh, Oldenburg, Ralls, Rome Beauty, Yellow Transparent.

NORTHWESTERN
Delicious, Jonathan, Lowry, Red Rome, Starking, York Imperial.

NORTHERN SPY
*Ben Davis*, Cox Orange, Cortland, *Delicious*, Golden Delicious, Golden Russet, Ingram, Jonathan, *Macoun*, McIntosh, Mother, *Northwestern*, Oldenburg, Ralls, Red Rome, *Rome Beauty*, Roxbury, Rhode Island, Steel Red, *Tolman*, Wagener, *Wealthy*, *Williams*, Yellow Bellflower.
Baldwin and Tompkins King are unsatisfactory.

OLDENBURG (Duchess)
Black Ben Davis, *Delicious*, *Fameuse*, Grimes, *Jonathan*, King David, Lowell, *McIntosh*, Northern Spy, Rhode Island, Wagener, *Wealthy*, White Pippin, *Yellow Transparent.*

RALLS
Ensee, Mother, *Northern Spy*, *Rome Beauty.*
Ralls is a late blooming variety.

RED CANADA
Boiken, Delicious, Grimes, Northern Spy, Oliver.

RED DUCHESS (Daniels Strain)
Joyce, McIntosh, Melba.

RED GRAVENSTEIN
Joyce, McIntosh, Melba, Red Duchess.

RED JUNE
Early Harvest, Early Ripe, Grimes, Jonathan, Red Astrachan, Williams, Yellow Transparent.

RED ROME
*Golden Delicious*, Jonathan, Joyce, Lobo, *Macoun*, McIntosh, Melba, McEarly, *Northern Spy*, Red Duchess, *Starking*, Summer Rambo, Yellow Transparent.

RHODE ISLAND
Ben Davis, *Cortland*, *Delicious*, Early McIntosh, *Hubbardston*, Jonathan, Macoun, McIntosh, Milton, Oldenburg, Opalescent, *Twenty Ounce*, *Wealthy*, Yellow Transparent.
Baldwin is not a satisfactory pollenizer.

RICHARED
*Golden Delicious*, *King David*, *McIntosh*, *Ortley*, *Red Rome*, *Rome Beauty*, Winter Banana, Yellow Newtown.
Commercially unfruitful with Blackjon, Delicious, Jonathan, Starking, Shotwell Delicious, White Winter Pearmain, Stayman, and Winesap.

ROME BEAUTY
Ben Davis, *Delicious*, Ensee, *Golden Delicious*, Grimes, *Jonathan*, King David, Lowry, McIntosh, Melba, Mother, *Northern Spy*, *Northwestern*, *Red Spy*, *Starking*, Salome, Wagener, Wealthy, Yellow Newton, Yellow Transparent, York Imperial.
Rome Beauty will produce a light crop with its own pollen. Gallia Beauty and Red Rome are unsatisfactory pollenizers.

ROXBURY
Baldwin, Ben Davis, Delicious, Grimes, Hubbardston, Jonathan, McIntosh, Northern Spy, Red Canada, Rhode Island, White Pippin.

SCARLET PIPPIN (Crimson Beauty)
Red Astrachan, Yellow Transparent.

STARK
Ben Davis, *Delicious*, Fameuse, *Golden Delicious*, Grimes, *Jonathan*, *McIntosh*, Northern Spy, Rome Beauty, Wealthy, Winter Banana, Wolf River, *York Imperial.*

STARKING
*Blackjon*, Chenango, *Golden Delicious*, *Grimes*, Lobo, Melba, Red Duchess, *White Winter Pearmain.*
Delicious, Shotwell Delicious, Stayman, and Winesap are unsatisfactory.

STAYMAN
*Ben Davis*, Bayard, Bonum, *Delicious*, Early Ripe, Ensee, *Gallia Beauty*, *Golden Delicious*, *Grimes*, *Jonathan*, *McIntosh*, Nickajack, Oliver, *Rome Beauty*, Wealthy, Williams, *Yellow Transparent*, *York Imperial.* (Winesap, Kinnaird and Arkansas are cross-unfruitful with Stayman.)

SUMMER RAMBO
Delicious, Grimes, Jefferies, Oldenburg, *Wealthy*, *Wilson Red June*, *Yellow Transparent*, York Imperial.

(To be Continued Next Month)

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## *APPLE SCAB*

If it were possible to freeze scab spores to death, our fears of this dreaded disease would be over for this year. Unfortunately, this is not the case. In fact, the patholgists tell us that the mild, cool, moist periods of the past month have been ideal for the development of the disease in the fallen leaves, lying under the trees in the orchard. With the better movement of fruit during the past season, the new note of confidence evidenced by growers, and a little brighter future ahead, the grower will likely redouble his efforts to increase the percentage of high quality fruit during the season to come. This means that he will have to at least, cut out a few parts of the "economy program" which has been, in many cases, followed due to necessity. We will have to consider very carefully, any short cuts or corner-cutting. There are no safe short cuts in spraying, and every grower should be ready for scab control by being prepared to cover the trees quickly, especially the susceptible varieties, with an efficient spray mixture, thoroughly applied, and possibly more important, to get this material on the trees at the proper time.

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## HAVE YOU READ THE ADVERTISEMENTS?

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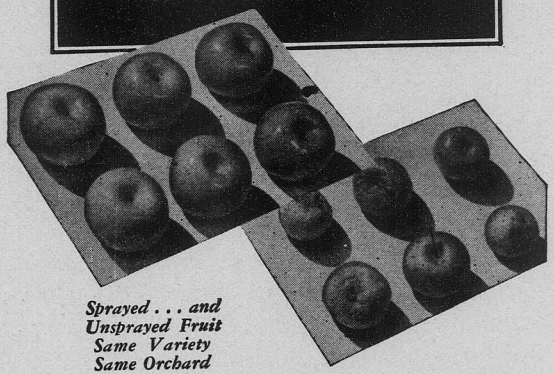
Waiter—(after bringing customer his seventh cup of coffee)—"You certainly must like coffee, sir."

Customer—"Yes, I must or I wouldn't drink so much water to get a taste of coffee."

# Better Fruit Bigger Profits

## WITH KOPPERS FLOTATION SULPHUR



*Sprayed . . . and Unsprayed Fruit Same Variety Same Orchard*

When you use Koppers Flotation Sulphur, the new and improved fungicide that is 15 times finer than 300 mesh, you can be sure of effective disease control. Because of its microscopic ultra-fineness, Koppers Flotation Sulphur deposits more uniformly, adheres better, sprays more easily and gives maximum coverage with a minimum amount of spray. For better fruit and bigger profit spray with Koppers Flotation Sulphur.

*The Original and Genuine Flotation Sulphur carries the Koppers name and this trade mark.*

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KOPPERS BUILDING PITTSBURGH, PA.

SCALECIDE

TAR-O-WASH

TAR-O-WASH 37-46

STRAITAR

PRATT'S "83"

PRATT'S "66"

SUMMER SCALECIDE

DELAYED DORMANT SPRAYS. **SCALECIDE**—1 to 15 for scale and aphis. The oldest and most efficient oil spray ever made. Handles a most difficult job with safety and even invigorates the trees.

**Pratt's "83"**—the 83% to 85% lubricating oil emulsion that has been received with such great enthusiasm. Those who use it marvel at the beautiful, stable emulsion which is sold at such a low price. Mixes in any water. Combines with lime sulfur.

PRE-BLOSSOM SPRAYS. **Scalecide**—1 to 100 combined with **SULFOCIDE** 1 to 200 is the cheapest and most effective combined contact insecticide and fungicide available today. For aphis and soft bodied insects, as well as scab.

SUMMER OIL. **SUMMER SCALECIDE** is in a class by itself as a safe summer oil. Its cost is almost one-half the usual summer emulsion. Furthermore, it has been found to be one of the greatest activators for Nicotine known. Reduce spray residue by using Summer Scalecide and Nicotine for codling moth. The Summer Scalecide not only releases Nicotine fumes gradually, but activates their action. Summer Scalecide also combines as a spreader with Arsenate of Lead or Bordeaux Mixture.

Get Pratt's prices before purchasing any oil spray.

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50 Church Street, Department "F" New York, N. Y.